

Patent claims

1. A process for remachining a through-hole (10) in a component (7), in which a material-removing agent (13) flows through the through-hole (10), and in which a surface (45) arranged around the through-hole (10) in the component (7) is protected.

2. The process as claimed in claim 1, characterized in that the surface (45) is protected by the agent (13) being diluted after it emerges from the through-hole (10), so that no material is removed at the surface (45).

3. The process as claimed in claim 1, characterized in that the surface (45) is protected by an electrode (31) being arranged in the vicinity of the through-hole (10), in such a way that material is removed only in the region in the vicinity of the through-hole (10).

4. The process as claimed in claim 1, 2 or 3, characterized in that the material-removing agent (13) flows through the through-hole (10) from the inside (54) outward.

5. The process as claimed in claim 1, characterized in that the agent (13) used is an acid (33).

6. The process as claimed in claim 1, characterized in that the agent (13) used is an electrolyte (16).

7. The process as claimed in claim 1, 3 or 6, characterized in that the remachining is carried out electrolytically.

8. The process as claimed in claim 2, characterized in that the dilution of the agent (13) is effected by introducing the component (7) having the through-hole (10) to be machined into a medium (22) which does not remove material.

9. The process as claimed in claim 2, characterized in that the agent (13, 16, 33) is diluted by spraying a medium (22) which does not remove material around the emerging agent (13, 16, 33).

10. The process as claimed in claim 8 or 9, characterized in that water is used as the medium (22) which does not remove material.

11. The process as claimed in claim 1, characterized in that the through-hole (10) at least in part has a layer which needs to be removed.

12. The process as claimed in claim 1, characterized in that the surface (45) is protected by masking.

13. The process as claimed in claim 6 or 7, characterized in that a current/voltage is used to carry out the remachining electrolytically, and in that the current/voltage is pulsed.